USACE PC, PDR/3086 AAR

Day 2

8 June 2011

US Army Corps of Engineers
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AAR
Summarization of Successes and Corrective Actions FY 13 Program

8 June 2011

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Agenda

- Standardized Scope of Work for PDRs
- Changes to PDRS
- Challenges of Renovation Projects
- COS Approval Details
- PDR/3086 Metric and Endorsements
- Acquisition Strategies
- Abbreviated PDR business rules

Proposal to Standardize PDR Project Work Statement (PWS)

- Last year the Planning Charrette PWS was reviewed and revised by a “Tiger Team” to foster product consistency.
- Standardization of PDR PWS has been proposed to achieve the same goal at the parametric design stage.
- Tiger Team would be formed and MSC’s will be asked for a “good example” PWS to harvest best practices.
- Request MSC/District input on proposal

Changes to PDRS

- Web address has changed:
  - http://mrsi.usace.army.mil/pdrs/SitePages/Home.aspx
- Policy Documents (including current PDR Instructions, templates, and guidance documents) are available on website
- PDR Status can now be seen from website without logging into the system
- 3086 Status report can now be found

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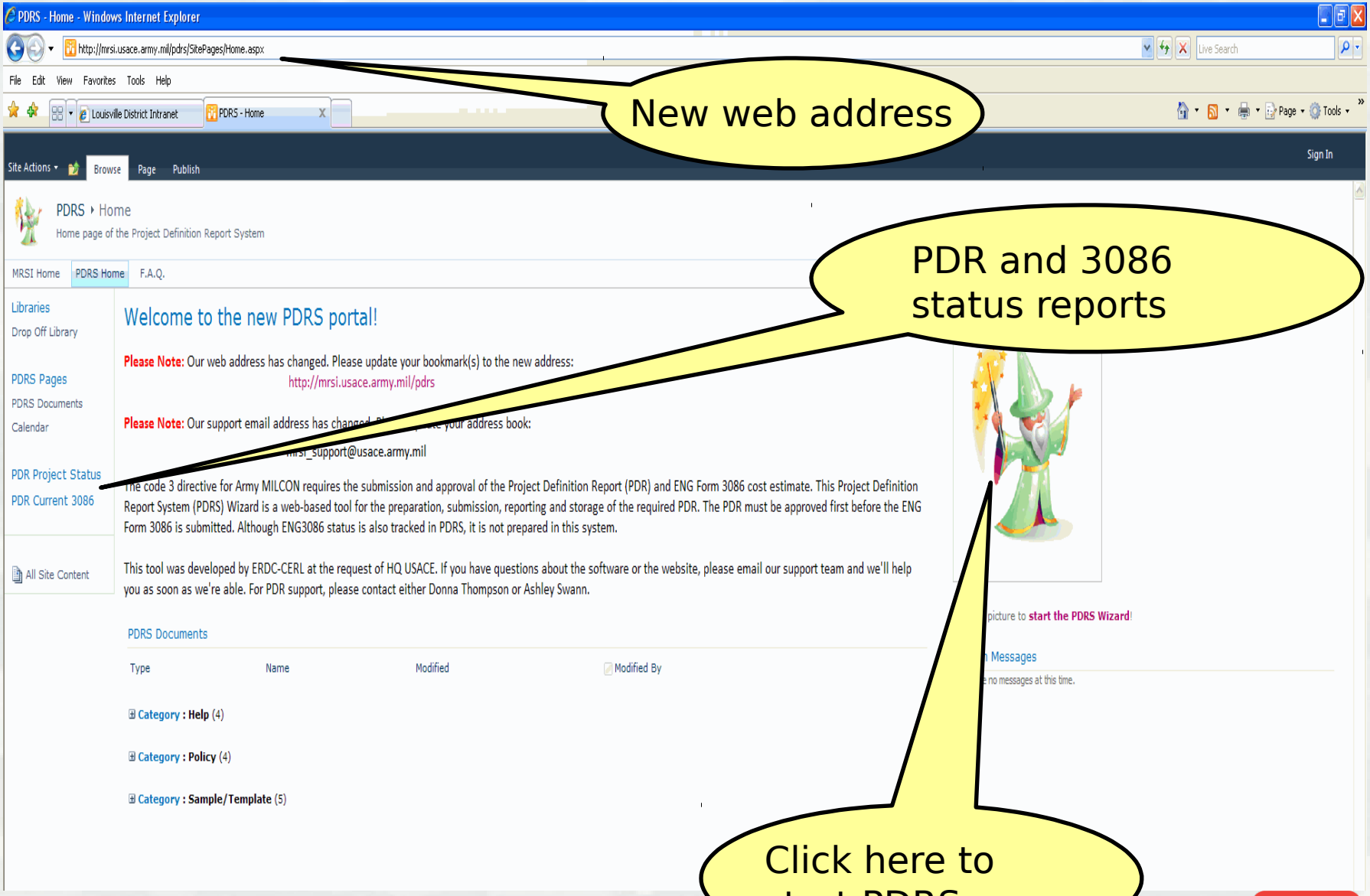
PDRS - Home - Windows Internet Explorer
http://mrsi.usace.army.mil/pdrs/SitePages/Home.aspx
File Edit View Favorites Tools Help
Louisville District Intranet
PDRS - Home
Site Actions
Browse
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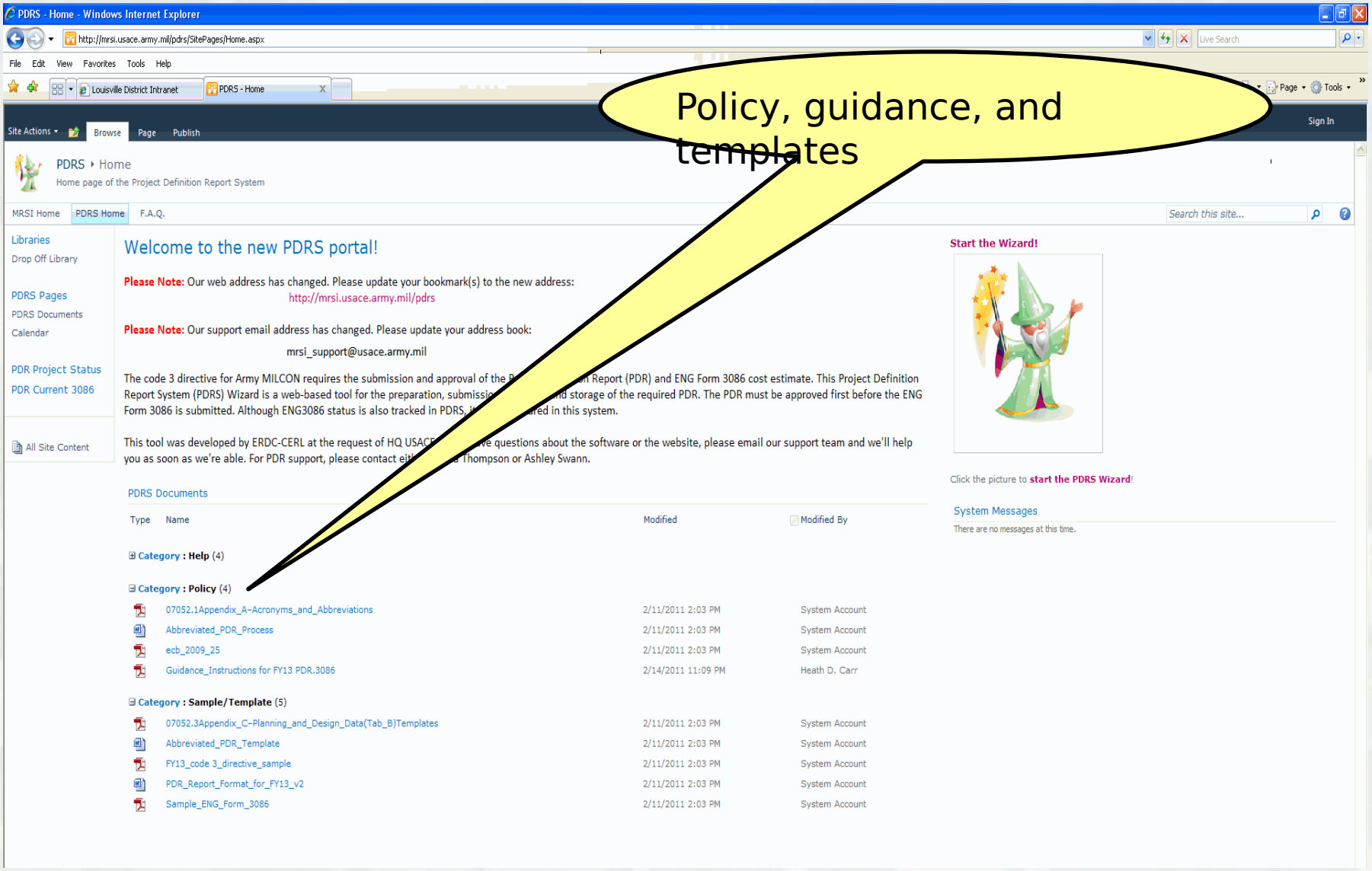
Home page of the Project Definition Report System
MRSI Home
PDRS Home
F.A.Q.
Libraries
Drop Off Library
PDRS Pages
PDRS Documents
Calendar
PDR Project Status
PDR Current 3086
All Site Content
Welcome to the new PDRS portal!
Please Note: Our web address has changed. Please update your bookmark(s) to the new address:
http://mrsi.usace.army.mil/pdrs
Please Note: Our support email address has changed. Please update your address book:
mrsi_support@usace.army.mil
The code 3 directive for Army MILCON requires the submission and approval of the Project Definition Report (PDR) and ENG Form 3086 cost estimate. This Project Definition Report System (PDRS) Wizard is a web-based tool for the preparation, submission, reporting and storage of the required PDR. The PDR must be approved first before the ENG Form 3086 is submitted. Although ENG3086 status is also tracked in PDRS, it is not prepared in this system.
This tool was developed by ERDC-CERL at the request of HQ USACE. If you have questions about the software or the website, please email our support team and we'll help you as soon as we're able. For PDR support, please contact either Donna Thompson or Ashley Swann.
PDRS Documents
Type
Name
Modified
Modified By
Category : Help (4)
Category : Policy (4)
Category : Sample/Template (5)
picture to start the PDRS Wizard!
Messages
no messages at this time.
New web address
PDR and 3086 status reports
Click here to start PDRS Wizard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Thompson or Ashley Swann.
Start the Wizard!
Click the picture to start the PDRS Wizard!
System Messages
There are no messages at this time.
PDRS Documents
Type Name Modified Modified By
Category : Help (4)
Category : Policy (4)
07052.1Appendix_A-Acronyms_and_Abbreviations 2/11/2011 2:03 PM System Account
Abbreviated_PDR_Process 2/11/2011 2:03 PM System Account
ecb_2009_25 2/11/2011 2:03 PM System Account
Guidance_Instructions for FY13 PDR.3086 2/14/2011 11:09 PM Heath D. Carr
Category : Sample/Template (5)
07052.3Appendix_C-Planning_and_Design_Data(Tab_B)Templates 2/11/2011 2:03 PM System Account
Abbreviated_PDR_Template 2/11/2011 2:03 PM System Account
FY13_code 3_directive_sample 2/11/2011 2:03 PM System Account
PDR_Report_Format_for_FY13_v2 2/11/2011 2:03 PM System Account
Sample_ENG_Form_3086 2/11/2011 2:03 PM System Account
Policy, guidance, and templates

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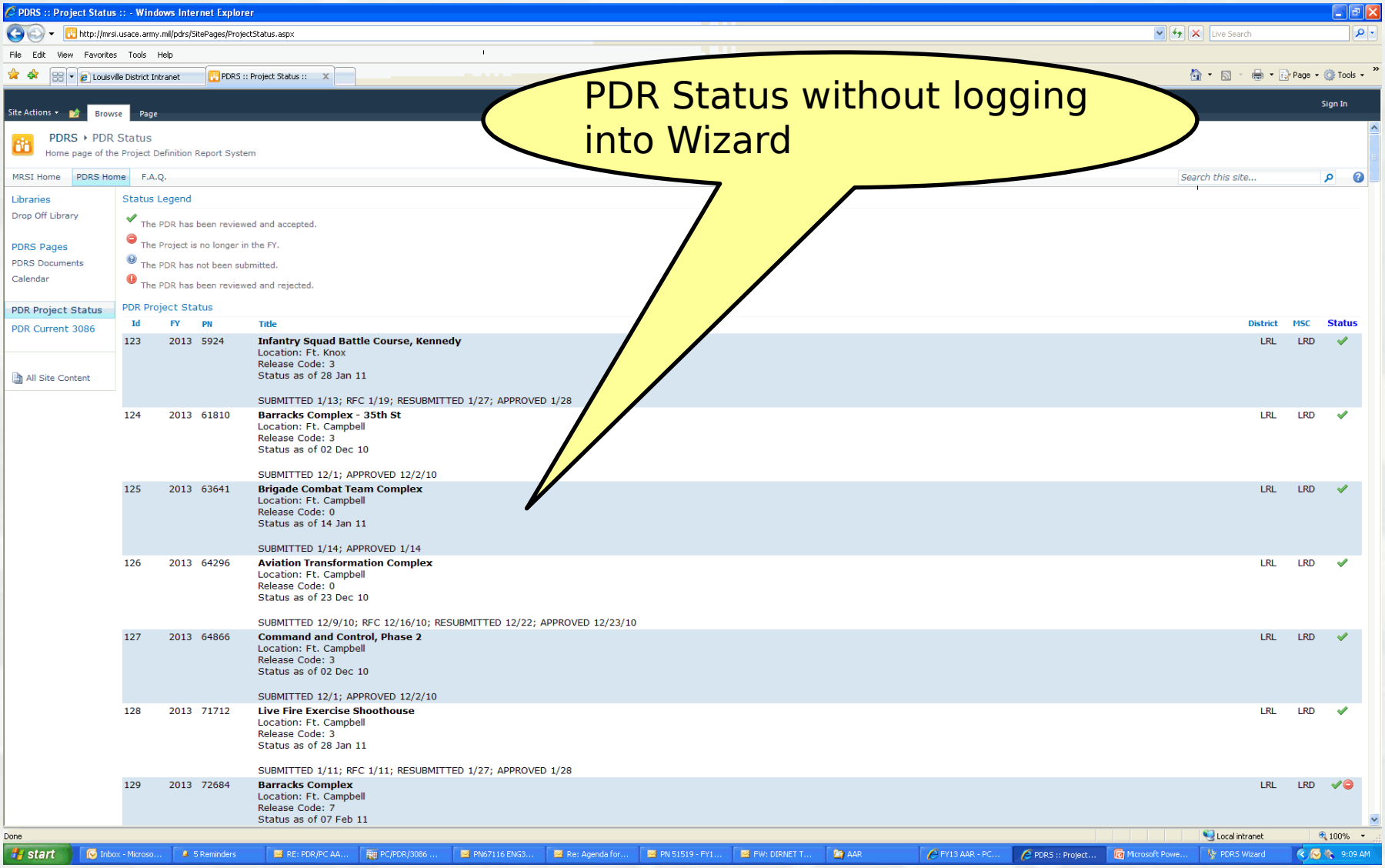
PDR Status without logging into Wizard
PDRS :: Project Status :: - Windows Internet Explorer
http://mrsi.usace.army.mil/pdrs/SitePages/ProjectStatus.aspx
PDRS ▸ PDR Status
Home page of the Project Definition Report System
MRSI Home
PDRS Home
F.A.Q.
Libraries
Drop Off Library
PDRS Pages
PDRS Documents
Calendar
PDR Project Status
PDR Current 3086
All Site Content
Status Legend
The PDR has been reviewed and accepted.
The Project is no longer in the FY.
The PDR has not been submitted.
The PDR has been reviewed and rejected.
PDR Project Status
Id FY PN Title District MSC Status
123 2013 5924 Infantry Squad Battle Course, Kennedy
Location: Ft. Knox
Release Code: 3
Status as of 28 Jan 11
SUBMITTED 1/13; RFC 1/19; RESUBMITTED 1/27; APPROVED 1/28
LRL LRD
124 2013 61810 Barracks Complex - 35th St
Location: Ft. Campbell
Release Code: 3
Status as of 02 Dec 10
SUBMITTED 12/1; APPROVED 12/2/10
LRL LRD
125 2013 63641 Brigade Combat Team Complex
Location: Ft. Campbell
Release Code: 0
Status as of 14 Jan 11
SUBMITTED 1/14; APPROVED 1/14
LRL LRD
126 2013 64296 Aviation Transformation Complex
Location: Ft. Campbell
Release Code: 0
Status as of 23 Dec 10
SUBMITTED 12/9/10; RFC 12/16/10; RESUBMITTED 12/22; APPROVED 12/23/10
LRL LRD
127 2013 64866 Command and Control, Phase 2
Location: Ft. Campbell
Release Code: 3
Status as of 02 Dec 10
SUBMITTED 12/1; APPROVED 12/2/10
LRL LRD
128 2013 71712 Live Fire Exercise Shoothouse
Location: Ft. Campbell
Release Code: 3
Status as of 28 Jan 11
SUBMITTED 1/11; RFC 1/11; RESUBMITTED 1/27; APPROVED 1/28
LRL LRD
129 2013 72684 Barracks Complex
Location: Ft. Campbell
Release Code: 7
Status as of 07 Feb 11
LRL LRD

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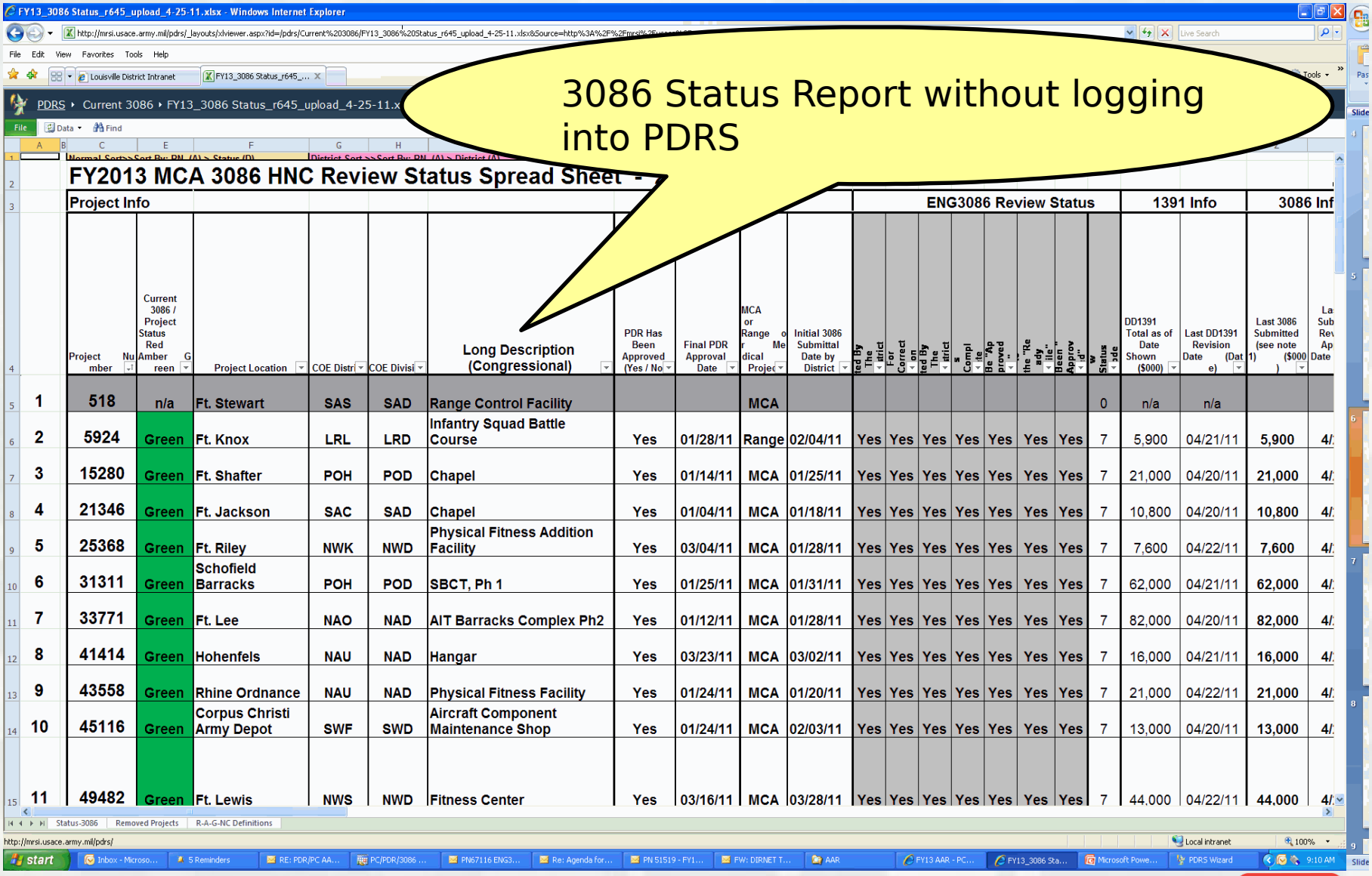


FY2013 MCA 3086 HNC Review Status Spread Sheet -

	Project Info											ENG3086 Review Status								1391 Info		3086 Inf	
	Project Number	Current 3086 / Project Status Red Amber Green	Project Location	COE District	COE Division	Long Description (Congressional)	PDR Has Been Approved (Yes / No)	Final PDR Approval Date	MCA or Range or Medical Project	Initial 3086 Submittal Date by District	ted By The istrict	For Correct on	ted By The istrict s	Compl te	Be "Ap proved	the "Re ady ile"	Been " Approv d"	w Status	DD1391 Total as of Date Shown ($000)	Last DD1391 Revision Date (Date)	Last 3086 Submitted (see note 1) ($000)	La Sub Rev Ap Date
1	518	n/a	Ft. Stewart	SAS	SAD	Range Control Facility			MCA									0	n/a	n/a		
2	5924	Green	Ft. Knox	LRL	LRD	Infantry Squad Battle Course	Yes	01/28/11	Range	02/04/11	Yes	Yes	Yes	Yes	Yes	Yes	Yes	7	5,900	04/21/11	5,900	4/
3	15280	Green	Ft. Shafter	POH	POD	Chapel	Yes	01/14/11	MCA	01/25/11	Yes	Yes	Yes	Yes	Yes	Yes	Yes	7	21,000	04/20/11	21,000	4/
4	21346	Green	Ft. Jackson	SAC	SAD	Chapel	Yes	01/04/11	MCA	01/18/11	Yes	Yes	Yes	Yes	Yes	Yes	Yes	7	10,800	04/20/11	10,800	4/
5	25368	Green	Ft. Riley	NWK	NWD	Physical Fitness Addition Facility	Yes	03/04/11	MCA	01/28/11	Yes	Yes	Yes	Yes	Yes	Yes	Yes	7	7,600	04/22/11	7,600	4/
6	31311	Green	Schofield Barracks	POH	POD	SBCT, Ph 1	Yes	01/25/11	MCA	01/31/11	Yes	Yes	Yes	Yes	Yes	Yes	Yes	7	62,000	04/21/11	62,000	4/
7	33771	Green	Ft. Lee	NAO	NAD	AIT Barracks Complex Ph2	Yes	01/12/11	MCA	01/28/11	Yes	Yes	Yes	Yes	Yes	Yes	Yes	7	82,000	04/20/11	82,000	4/
8	41414	Green	Hohenfels	NAU	NAD	Hangar	Yes	03/23/11	MCA	03/02/11	Yes	Yes	Yes	Yes	Yes	Yes	Yes	7	16,000	04/21/11	16,000	4/
9	43558	Green	Rhine Ordnance	NAU	NAD	Physical Fitness Facility	Yes	01/24/11	MCA	01/20/11	Yes	Yes	Yes	Yes	Yes	Yes	Yes	7	21,000	04/22/11	21,000	4/
10	45116	Green	Corpus Christi Army Depot	SWF	SWD	Aircraft Component Maintenance Shop	Yes	01/24/11	MCA	02/03/11	Yes	Yes	Yes	Yes	Yes	Yes	Yes	7	13,000	04/20/11	13,000	4/
11	49482	Green	Ft. Lewis	NWS	NWD	Fitness Center	Yes	03/16/11	MCA	03/28/11	Yes	Yes	Yes	Yes	Yes	Yes	Yes	7	44,000	04/22/11	44,000	4/

Challenges of Renovation Projects

- Renovation projects require an in depth description of the work required.
- COS's are required to review and concur (in PAX) with the scope of renovation projects for those facility types with standard designs
  - COS input is required to ensure that renovations incorporate as many of the standard design features as practical and ensure the intent of the Army Standards are met.
- PDR's for renovation projects need to include more detailed information regarding the scope of the renovation work
  - (i.e. Renovate Bldg X (10,000 SF) for $3.6M – What does this include? Finishes, windows, exteriors, HVAC)
  - Confusion between scope required and scope to be renovated and how it is quantified. (i.e. Renovate 45KSF for a 30KSF requirement)

COS Approval Details

- COS Concurrence of scope must be obtained for each individual Primary Facility line item involving any standard design category code.

- COS is required to provide quantified concurrence in PAX. Concurrence must be referenced or included in PDR.

- Additional information has been requested on COS Concurrence Statements.
  - Add name of COS POC
  - Add additional detail on unique features or renovations.
  - Add Acquisition Strategy

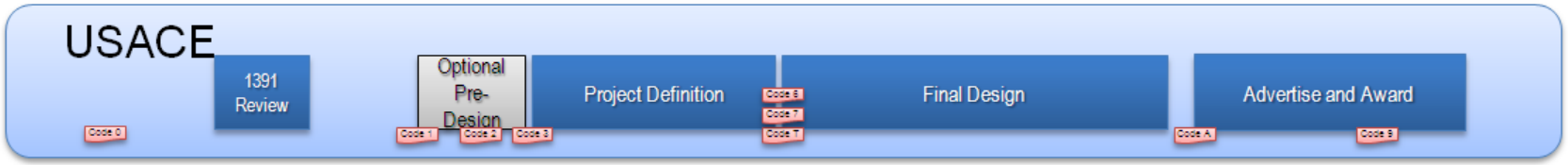
NOTE: COS has limited input room due to constraints of PAX

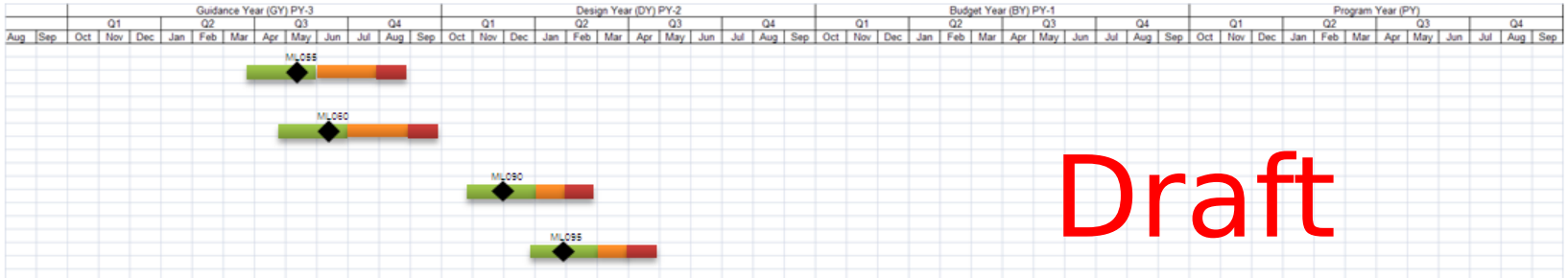
- *Proposed solution is to make multiple separate entries*

MP02: Proposed 3086 Approval Process Metric

INTENT: Provide Visibility and Measures the Status of the PDR Development and 3086

Proposed 3086 Approval Process Metric

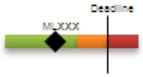




Draft

MileZones

Each milestone in the project delivery process has an optimum timeframe that is should occur within. The green zone is any month prior to the ideal timeframe. The amber timeframe is designated for those milestones that occur within 2 months of the milestone due date. Milestones that occur after the optimum timeframe are red. If a milestone is not scheduled it is listed as Gray.



Key Milestones

ML025 – Planning Charette Complete
ML055 – Initial Design Release (Customer Commitment)
ML060 – Design Start
ML090 – Preliminary Design Complete/DD3086 Submitted
ML095 – DD3086 Approved by HNC (USACE Commitment)

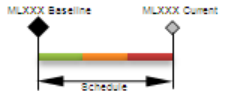
Metric Ratings and Calculation

Number of Projects achieving 3086 approval before 1-Mar/Number of Projects in the Program

Green +/>90% Amber: >80% to <90% Red:<80%

Variance on Commitment Milestone

Measure the Schedule Variance between Last DMR's Date and Current Schedule Date.



Milestones occurring on or before last reported date = Green
Milestones occurring within 30d of last reported date = Amber
Milestones occurring more than 30d after last reported date = Red

Milestone	Green	Amber	Red
ML055 - Initial Design Release (Customer Commitment)	On or before 31-May-10	Between 01-Jun-10 and 31-Jul-10	On or after 01-Aug-10
ML060 - Design Start	On or before 30-Jun-10	Between 01-Jul-10 and 31-Aug-10	On or after 01-Sep-10
ML090 - Preliminary Design Complete/DD3086 Submitted	On or before 31-Dec-10	Between 01-Jan-11 and 31-Jan-11	On or after 01-Feb-11
ML095 - DD3086 Approved by HNC (USACE/ACSIM Commitment)	On or before 31-Jan-11	Between 01-Feb-11 and 28-Feb-11	On or after 01-Mar-11
Milestone Variance Indicators			
All Milestones	On or Before the Last DMR Date	Within 30d of Last DMR	More than 30d later than last DMR

HQUSACE PDT
Scott Sawyer
Al Young
Nelson Rulona
Ami Ghosh

PDR Endorsements

- Current PDR or PDR-lite is submitted without preparer's name and chain of command endorsements
- PDR and PDR-lite must be officially endorsed by District leadership
  - ► Acquisition strategy and CCG metric
  - ► Starting with FY13 MCA Late Adds
  - ► Signatures required for DDPM or Engineering Chief or both (?)
  - ► FY14 Guidance Instructions and template will show requirement
- Aligns with ER 1110-1-1300 that District cost engrng. chief review and approve ENG Form 3086 for PAX submission.

Program Acquisition Strategies

"2 Bs or not 2 Bs…that is the question"

- DBB (Legacy, code 6) – DB (MT, code 7) – AB (MBP, code T)
- DBB – high P&D; DB – fixed 4%; AB – expected reduced P&D
- AB BIM models for COS standard facility designs
  - 44 standard designs
  - Not all standard designs warrant AB BIM model; i.e., PFF, UEPH
  - 8 AB BIM standard design models currently available
- Project acquisition strategy concurrence between COS /GD
- Project acquisition strategy lock at project PDR submittal
- Change to project acquisition strategy after ENGR3086 lock is possible per ACSIM approval

FY13 Program Project Acquisition Strategy

Total # Projects	DBB	DB	AB
114*	59	39	16

# of projects based on standard designs = 61

# of standard design projects with potential AB BIM acquisition = 34

# of actual standard design projects with AB BIM acquisition = 16**

Actual AB BIM acquisition as % of potential AB BIM acquisition = 47%

standard design projects with DBB acquisition = 31***

standard design projects with DB acquisition = 14****

Business Rules for Abbreviated PDRs ("PDR Lite")

- Timing of design code releases from ACSIM determines use of PDR-lite
- HQUSACE (CEMP-IS) will determine PDR-lite usage in unique situations

USACE POCS:

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Directorate of Military Programs, HQUSACE
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FY13 PDR/3086 Energy Update

8 June 2011

US Army Corps of Engineers
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Agenda

- FY11 & FY12 Energy requirements
- FY13 PDR/3086 Energy Summary
- Way Ahead

Implementing Guidance ECB 2011-1

- A phased approach over a number of years
  - Learn as we go, do more with each opportunity

- FY 11 (as able) 40 percent better than ASHRAE Standard 90.1-2007
  - No changes made to project square footage (SF) or programmed amount (PA)

- FY12 40 percent better than ASHRAE Standard 90.1-2007
  - Adjusted project SF by 1-3 percent to account for thicker walls better insulated buildings
  - PA held constant (adjusted primary facility unit cost)
  - Life cycle cost analysis (LCCA), required on single items or an aggregate of items that increase construction cost by 1 percent or more

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FY13 PDR/3086 Guidance

- FY13 ASHRAE Standard 189.1
  - Adjusted project SF by 1-3 percent , PA adjusted (primary facility unit cost held constant)
    - Exception 4 EISA projects; adjusted per PDT recommendations
  - Retained 2 percent allotted for EPACT 2005 and LEED for EISA 2007 compliance; renamed Energy/Sustainability
  - Low impact design (LID) included in DD 1391 adjustment
    - 2% of Supporting Facility costs
  - Require LEED silver certification
  - Attachment A – list of 21 Energy Efficiency Measures (EEMs)
- Total 114 projects - PAs increased by approximately 1.4% average
- All adjustments noted in “EXPLANATION OF DATA DEVELOPMENT”
- See example next slide

FY13 Example

3086 Adjusted for Energy

Energy Within Planning & Programming

- Planning Charrette (PC) vs Project Definition Report (PDR)
  - Code 0 PC is an O&M funded activity thru ACSIM; not all projects have a PC
    - Goal is a DD Form 1391
    - Executed by Geographic District or HNC's AE(s) thru HNC Program
  - Code 3 PDR/3086 is a P&D funded activity; all projects have a 3086 validation.
    - Goal is final validation of Scope and Cost in a 3086 form
    - Executed by GD with in-house staff or GD AE(s)
- Justification
  - At PCs establish Energy Goals thru use of Energy Calculator
    - Limited time to address ALL project requirements, i.e. User, Anti-terrorism, scope, etc
    - Baseline tool used by GD or HNC
  - At Code 3 incorporate Energy Charrette to address thermal modeling, daylight modeling, energy modeling, ventilation analysis and costs.
    - Report on Energy features per ECB 2011-1 above 1% PA with respect to cost and LCCA.
    - GDs can use any Energy Modeling software available

Energy Within Planning & Programming

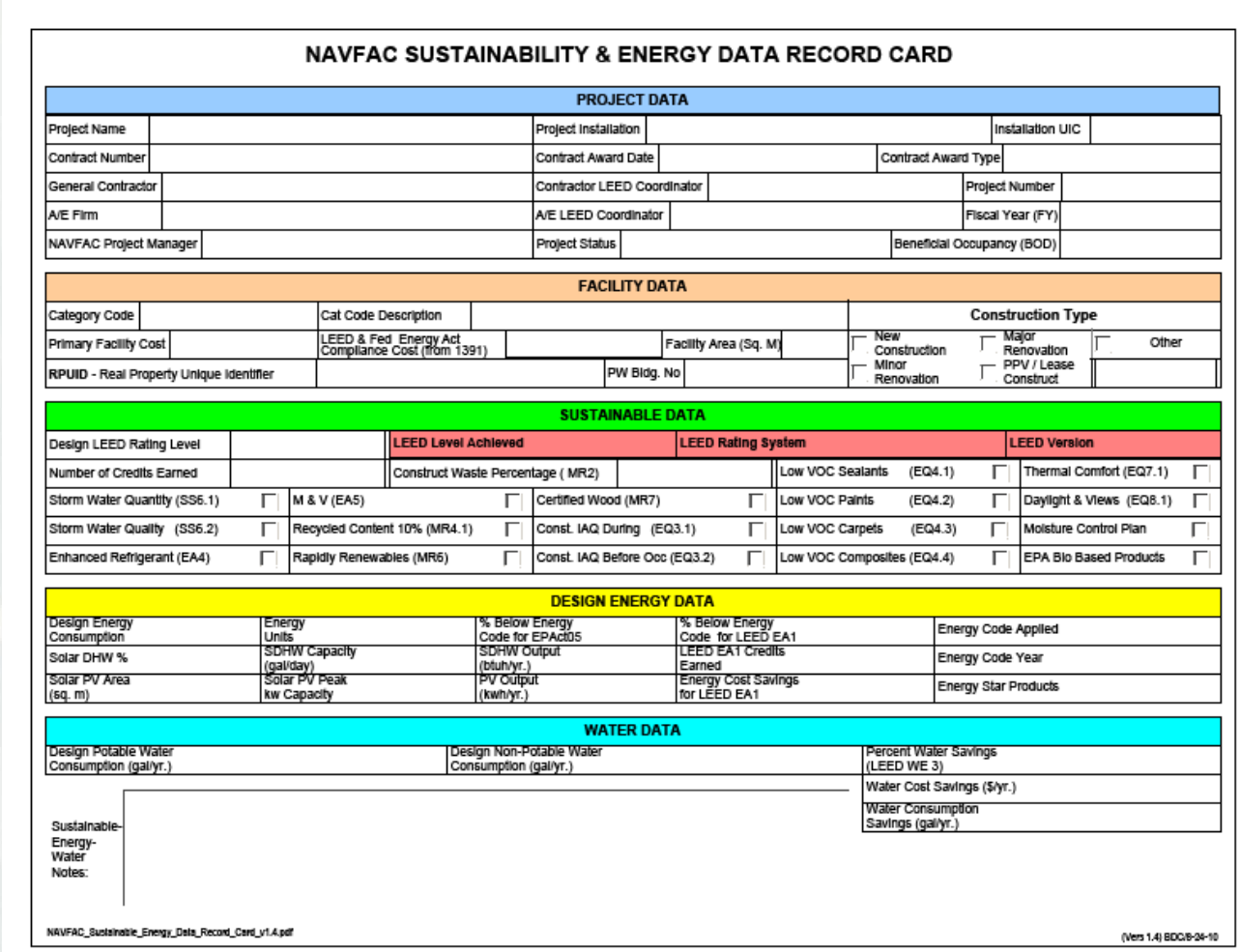
- FY14 MILCON workload is ~ 50% decrease from FY13 MILCON Program

- COS role in each process
  - COS participates in Code 0 to validate requirements based on approved criteria
  - COS confirms scope requirements at Code 3 (15 to 30% Design)
    - Provide regional solutions
    - Incorporate MILCON Energy IPT findings for the five Tier One facilities
  - COS recommendation (Mar 2011) to use Energy Charrettes at Code 3
    - As a PDT member, refine test model results and review options/benefits with Customer/User/Installation.
    - Address if Standard waivers are required to incorporate Energy Mandates

FY14+ Way Ahead

- Continued improvement incorporating Energy
  - COS recommendations for facility types
  - Energy decisions made during the PDR phase in accordance with ECB 2011-1
    - Energy Calculator
    - Energy Charrette
  - Renewable Energy components will begin to be addressed
    - Aggregating requirements of multiple facilities
- Reporting and documentation of Energy & LID
  - Example NAVFAC Energy Data Record Card
- MILCON Requirements and Standardization Integration (MRSI) Website
  - One stop location for PCs, Code 3 PDRs, RFPs, and MILCON Business Process

Example – Energy Data Card



NAVFAC SUSTAINABILITY & ENERGY DATA RECORD CARD

PROJECT DATA

Project Name		Project Installation		Installation UIC	
Contract Number		Contract Award Date		Contract Award Type	
General Contractor		Contractor LEED Coordinator		Project Number	
A/E Firm		A/E LEED Coordinator		Fiscal Year (FY)	
NAVFAC Project Manager		Project Status		Beneficial Occupancy (BOD)	

FACILITY DATA

Category Code		Cat Code Description		Construction Type	
Primary Facility Cost		LEED & Fed Energy Act Compliance Cost (from 1391)		Facility Area (Sq. M)	☐ New Construction ☐ Major Renovation ☐ Other
RPUID - Real Property Unique Identifier		PW Bldg. No		☐ Minor Renovation ☐ PPV / Lease Construct	

SUSTAINABLE DATA

Design LEED Rating Level		LEED Level Achieved	LEED Rating System		LEED Version
Number of Credits Earned		Construct Waste Percentage (MR2)		Low VOC Sealants (EQ4.1) ☐	Thermal Comfort (EQ7.1) ☐
Storm Water Quantity (SS6.1) ☐	M & V (EA5) ☐	Certified Wood (MR7) ☐		Low VOC Paints (EQ4.2) ☐	Daylight & Views (EQ8.1) ☐
Storm Water Quality (SS6.2) ☐	Recycled Content 10% (MR4.1) ☐	Const. IAQ During (EQ3.1) ☐		Low VOC Carpets (EQ4.3) ☐	Moisture Control Plan ☐
Enhanced Refrigerant (EA4) ☐	Rapidly Renewables (MR6) ☐	Const. IAQ Before Occ (EQ3.2) ☐		Low VOC Composites (EQ4.4) ☐	EPA Bio Based Products ☐

DESIGN ENERGY DATA

Design Energy Consumption	Energy Units	% Below Energy Code for EPAct05	% Below Energy Code for LEED EA1	Energy Code Applied
Solar DHW %	SDHW Capacity (gal/day)	SDHW Output (btuh/yr.)	LEED EA1 Credits Earned	Energy Code Year
Solar PV Area (sq. m)	Solar PV Peak kw Capacity	PV Output (kwh/yr.)	Energy Cost Savings for LEED EA1	Energy Star Products

WATER DATA

Design Potable Water Consumption (gal/yr.)	Design Non-Potable Water Consumption (gal/yr.)	Percent Water Savings (LEED WE 3)
		Water Cost Savings ($/yr.)
		Water Consumption Savings (gal/yr.)

Sustainable-Energy-Water Notes:

NAVFAC_Sustainable_Energy_Data_Record_Card_v1.4.pdf (Vers 1.4) BDC/8-24-10

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